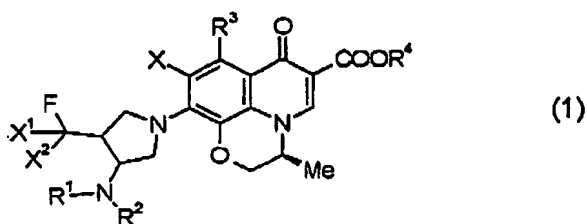


ABSTRACT

A quinolone antimicrobial agent having potent antimicrobial activity against gram positive and gram negative bacteria and having high safety is provided. A compound represented by the following formula (1):

5 [Chemical formula 1]



[wherein, R¹: hydrogen, alkyl, cycloalkyl, or substituted carbonyl derived from amino acid, peptide or tripeptide; R²: hydrogen, alkyl, or cycloalkyl; R³: hydrogen, amino, halogen, or alkyl; R⁴: hydrogen, phenyl, acetoxymethyl, pivaloyloxymethyl, ethoxycarbonyl, choline, dimethylaminoethyl, 5-indanyl, phthalidinyl, 5-alkyl-2-oxo-1,3-dioxol-4-ylmethyl, 3-acetoxy-2-oxobutyl, alkyl, alkoxyethyl, or phenylalkyl; X, X¹, X²: hydrogen or halogen] or salt thereof, or a hydrate thereof; and antimicrobial agent and therapeutic agent for infections, each containing the compound, salt thereof or

10

15 a hydrate thereof.